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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/620,272

07/09/2003

Salil Pradhan

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EXAMINER

CROSLAND, DONNIE L

ART UNIT

PAPER NUMBER

2636

DATE MAILED: 04/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. ✗ 10/620,272	Applicant(s) PRADHAN ET AL.	
	Examiner DONNIE L. CROSLAND	Art Unit 2636	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-54 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-24 and 29-54 is/are allowed.
- 6) ☒ Claim(s) 25-28 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>7-9-03</u> . | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Specification

The disclosure is objected to because of the following informalities: In the specification, page 24, and line 5, "U.S. Application Ser. No TBD" is improper in referencing a US Patent Application.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

Claims 25-28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 25 is incomplete in failing to structurally connect all of the recited "means", such amounting to a gap in the claim language.

On lines 6-8, the phrases "the times", and "signal timing means", both occurrences, lacks antecedent basis.

On line 6, "in response the times" is incomplete.

Allowable Subject Matter

Claims 25-28 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

The following is a statement of reasons for the indication of allowable subject matter: Claim 1 recites a device that includes a timer and a controller operable to determine a location of the device with respect to another device based on the elapsed

time between transmission and receipt of the first type of signal and transmission and receipt of the second type of signal.

Claim 10 recites communication between a plurality of devices and provides to determine a location of the device with respect to another device based on the elapsed time between transmission and receipt of the first type of signal and transmission and receipt of the second type of signal calculates the distance between the first and second devices based upon time elapse between the transmission and receipt of the first type of signal and the transmission and receipt of the second type of signal.

Claim 18 recites a computer readable storage medium and provides for transmitting a first type of signal starting a timer, receiving the first type of signal and stopping the timer, determining the time elapse and determining the distance based upon the time elapsed between transmission and receipt of the first type of signal, transmitting a second type of signal, receiving the second type of signal, determining the time elapsed between transmission of the second type of signal and receipt of the second type of signal, and calculating the distance between the first and second devices based upon the time elapsed between the transmission and receipt of the first type of signal and the transmission and receipt of the second type of signal.

Claim 25 recites the means for calculating a distance in response to times obtained by the first type of signal timing means and the second type of timing means.

Claims 29, 37, 46, and 51 recite the combination and a plurality of devices configured to determine their locations with respect to others of the plurality of devices.

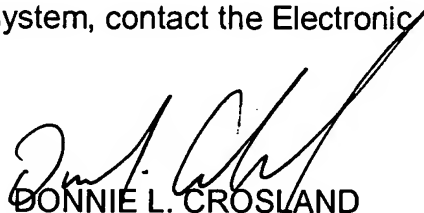
Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Lind et al, Mandhyan et al, Strvens et al and Slane are cited as of interest.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DONNIE L. CROSLAND whose telephone number is 571-272-2980. The examiner can normally be reached on Mon-Fri, 9:30a-6:00p.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JEFFERY HOFSSASS can be reached on 571-272-2981. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


DONNIE L. CROSLAND
Primary Examiner
Art Unit 2636